

13015

NPIC/TDS/D-1008-67
8 September 1967

MEMORANDUM FOR: Chief, Exploitation Systems Branch

SUBJECT : Sine Wave Test Equipment

1. The equipment presently in-house appears to have a basic fault in the design. The input of the system is a square wave which is supposed to be cancelled by a sine wave in the output. In reality these do not cancel and the result is a series of waves. Because the system is dependent upon a human eye to determine the "null" point and because the "null" point is in reality a series of waves itself, it is almost impossible to determine where the "null" point is.

2. I would suggest that the square wave target be replaced by another sine wave target. This, I think, would improve the system considerably, but even that may not make the equipment accurate enough for our needs. To perfect a device to measure modulation will probably require that the human eye be replaced by a more objective measuring system.

STATINTL

Exploitation Systems Branch, DS/TDS

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3 - NPIC/TDS/DS

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